

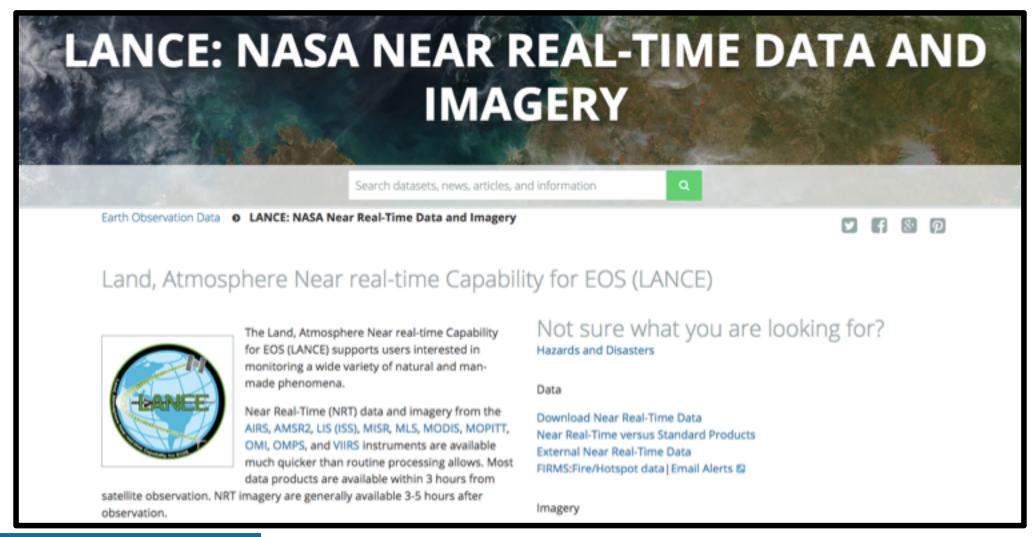


LANCE: NASA Near Real-Time Data and Imagery

Pawan Gupta, and Melanie Follette-Cook

Satellite Remote Sensing of Dust, Fires, Smoke, and Air Quality, July 10-12, 2018

LANCE



https://earthdata.nasa.gov/earth-observation-data/near-real-time



Browse Image

More GIBS Resources

Available Imagery Products

GIBS API for Developers

Map Library Usage

GIS Usage

Blog

Mailing List

GIBS Related Links

Worldview

Land, Atmosphere Near real-time Capability for EOS

Earthdata Search

Global Imagery Browse Services (GIBS)









Visually explore the past and present of our dynamic planet through the Global Imagery Browse Services (GIBS). GIBS provides quick access to over 600 satellite imagery products, covering every part of the world. Most imagery is available within a few hours after satellite overpass, some products span almost 30 years, and the imagery can be rendered in your own web client or GIS application.

NASA EOSDIS Global, Full Resolution Imagery

NASA EOSDIS GIBS provides full resolution visual representations of NASA Earth science data in a free, open, and interoperable manner. Through responsive and highly available web services, it enables interactive exploration of data to support a wide range of applications including scientific research, applied sciences, natural hazard monitoring, and outreach.

Quick and Easy Access to Imagery

Quickly access satellite imagery of every part of the world in near real-time. Many products are available within 3-5 hours of being observed. The imagery archive is also being expanded to include more historical products along

with those from nowhy

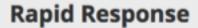




Rapid Response

Data

Disciplines: 🙆



Worldview

Global Imagery Browse Services (GIBS)

MODIS Subsets

MODIS Near Real-Time Images 🖾

VIIRS/Suomi-NPP Near Real-Time Images ☑

Rapid Response









Rapid Response will be replaced in the Fall of 2018. Find out more about each individual service below.

If you have any questions or comments, please contact support@earthdata.nasa.gov.

Rapid Response is the precursor to Worldview. Rapid Response has been providing global swath imagery from the Moderate Resolution Imaging Spectroradiometer (MODIS) is since 2001. Rapid Response MODIS Subsets and Near Real-Time (Orbit Swath) Images is are still available for long-term users and those with relatively slow internet access. Learn more about Rapid Response...

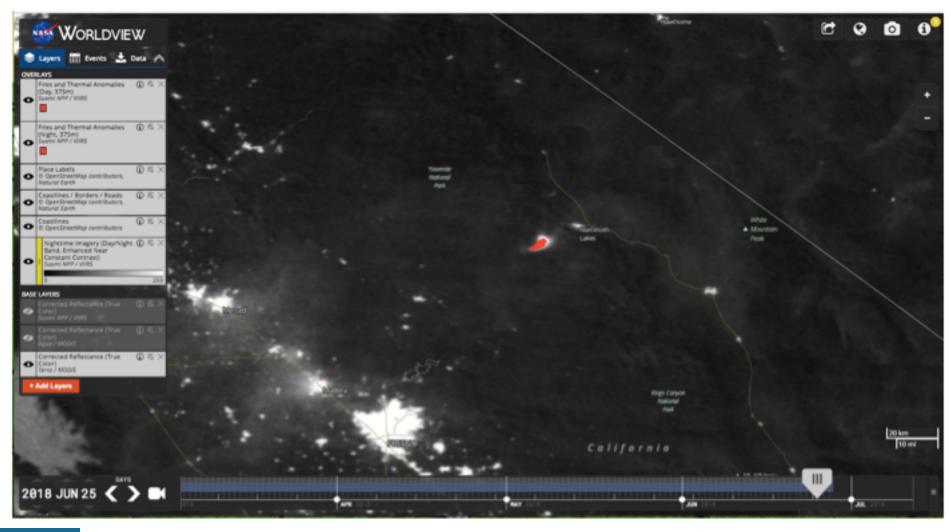
Worldview builds on the success of Rapid Response, it provides more functionality from a range of satellite instruments. If bandwidth is not an issue, we encourage users to try Worldview.

To help users, the imagery have been organized into 10 application categories to assist users in monitoring and analyzing a variety of natural and man-made hazards and disasters (e.g. ash plumes and fires).

https://earthaata.nasa.gov/earth-observation-aata/near-real-time/rapid-response



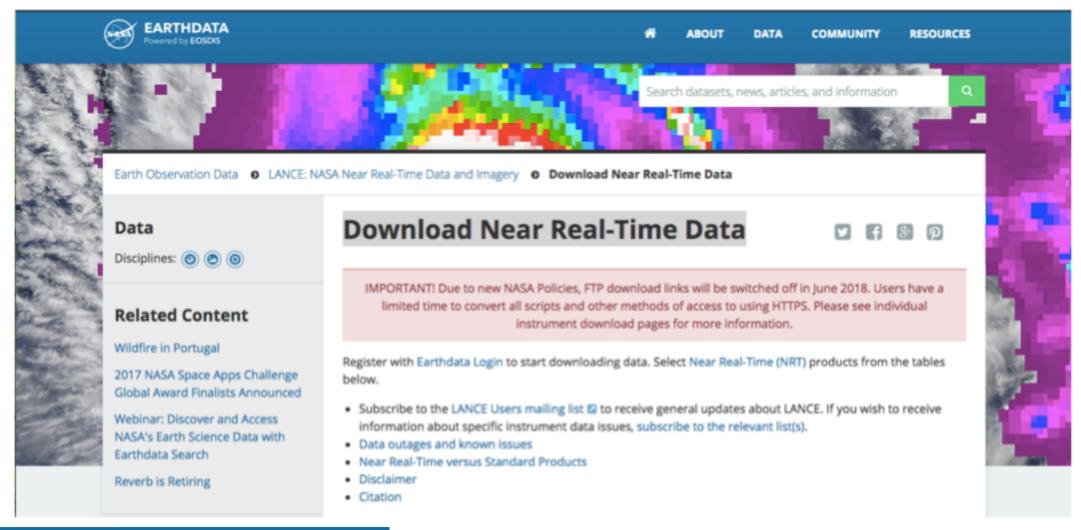
Worldview



https://worldview.eartnaata.nasa.gov/



Download Near Real-Time Data



https://earthaata.nasa.gov/earth-observation-aata/near-real-time/aownload-nrt-aata



MODIS Data

Data

Disciplines: (1)

Moderate Resolution Imaging Spectroradiometer (MODIS)









Download Near Real-Time Data

Advanced Microwave Scanning Radiometer 2 (AMSR2)

Atmospheric Infrared Sounder (AIRS)

Lightning Imaging Sensor on ISS (ISS LIS)

Microwave Limb Sounder (MLS)

Moderate Resolution Imaging Spectroradiometer (MODIS)

Measurements of Pollution in the Troposphere (MOPITT)

Multi-angle Imaging SpectroRadiometer (MISR) IMPORTANT: Switch to HTTPS – NRT FTP
This was originally planned for mid-June has been delayed until mid-July

Please note: The FTP to HTTPS change has been delayed by a month. The NRT3 and NRT4 FTP servers will switch to HTTPS in mid-July 2018. All users are advised to keep using ftp download as before to acquire nrt data from both NRT3 and NRT4 servers. Instructions for accessing NRT data via HTTPS will be sent to all users in due course.

MODIS Data

Collection 6.1 MODIS/Terra and MODIS/Aqua

Collection 6.1 MODIS/Terra and MODIS/Aqua Combined

Collection 6 MODIS/Terra and MODIS/Aqua

Collection 6 MODIS/Terra and MODIS/Aqua Combined

FTP download: nrt3.modaps.eosdis.nasa.gov or nrt4.modaps.eosdis.nasa.gov

Directory path for C6: allData/6/<product>/<year>/<dataday> or allData/6/<product>/Recent

Directory path for C6.1: allData/61///<dataday> or allData/61//

ittps://earthaata.nasa.gov/earth-observation-aata/near-real-time/aownloaa-nrt-aata/moais-nrt



MODIS Aerosol Data

Product Information Data Download Browse AOD Image L2 Aerosol, 5-Min L2 Aerosol MOD04_L2 0.38 10.5067/MODIS/MOD04_L2.NRT.061 Swath 10km 🔼 Browse 🔼 L2 Aerosol, 5-Min MOD04_3K 1.18 N/A 10.5067/MODIS/MOD04_3K.NRT.061 Swath 3km 🔼 04



EARTHDATA Login

- Must have EARTHDATA login &
- Add 'Near Real-Time (NRT)' to your approved apps

NRT FTP Server

Index of /allData/61/MOD04_L2/2018/175/

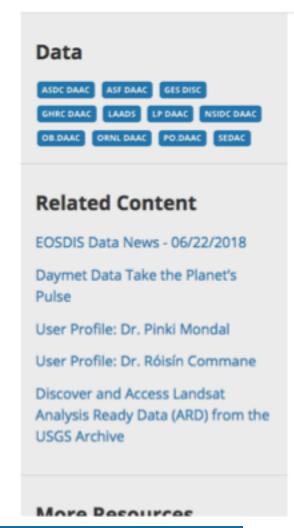
[parent directory]

Name	Size	Date Modified
MOD04_L2.A2018175.0000.061.NRT.hdf	865 kB	6/23/18, 4:51:00 PM
MOD04_L2.A2018175.0000.061.NRT.hdf.met	23.4 kB	6/23/18, 4:51:00 PM
MOD04_L2.A2018175.0005.061.NRT.hdf	2.3 MB	6/23/18, 5:33:00 PM
MOD04_L2.A2018175.0005.061.NRT.hdf.met	23.4 kB	6/23/18, 5:34:00 PM
MOD04_L2.A2018175.0010.061.NRT.hdf	1.2 MB	6/23/18, 5:33:00 PM
MOD04_L2.A2018175.0010.061.NRT.hdf.met	23.4 kB	6/23/18, 5:33:00 PM
MOD04_L2.A2018175.0015.061.NRT.hdf	4.3 MB	6/23/18, 5:37:00 PM
MOD04_L2.A2018175.0015.061.NRT.hdf.met	23.4 kB	6/23/18, 5:37:00 PM
MOD04_L2.A2018175.0020.061.NRT.hdf	4.6 MB	6/23/18, 5:35:00 PM
MOD04_L2.A2018175.0020.061.NRT.hdf.met	23.4 kB	6/23/18, 5:35:00 PM
MOD04_L2.A2018175.0025.061.NRT.hdf	3.8 MB	6/23/18, 5:35:00 PM
MOD04_L2.A2018175.0025.061.NRT.hdf.met	23.4 kB	6/23/18, 5:35:00 PM
MOD04_L2.A2018175.0030.061.NRT.hdf	4.8 MB	6/23/18, 5:36:00 PM

ttp://nrt4.modaps.eosals.nasa.gov/allData/61/MODU4_L2/2018/175/



Tools



Data Tools

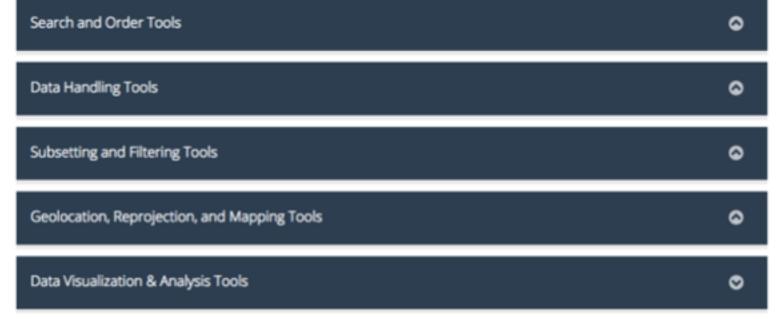








The EOSDIS Distributed Active Archive Centers (DAACs) provide center-unique tools for functions such as searching and subsettting data. The links provided in the category tables below list and describe some of these available data-handling and service tools. The tools are grouped loosely into broad categories that indicate the primary function of each tool, for example, data handling, visualization and analysis, search and order, etc.



https://earmaata.nasa.gov/earm-observation-aata/tools

